OF MISSO

Dennis W. Heckiman

NUMBER PE-27141 PE-2/IN.

1/3/2011

ST. LOUIS CITY

K1066432 CONTRACT ID

PROJECT NO.

A59842

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION U.I.P. (58.22'-98'-89'-112'-70.22') Continuous Composite Plate Girder Spans

General Notes:

Powder Coating: Preparation of galvanized steel surfaces and powder coat application and curing shall be in accordance with the powder coating manufacturer's

Powder shall be a polyester resin material.

The color of the powder coated Ornamental Pedestrian Fence components shall match as closely as possible Pittsburgh Paints Color #518-7 (black magic).

Conduit System on Structure:

Conduit System on Structure shall be in accordance with Section 707.

All conduit shall be 1"0 rigid aluminum conduit. Each section of conduit shall bear the Underwriters' Laboratories. Inc. (UL) Label.

All conduits shall be secured to concrete with nonmetallic clamps at about 5'-0" cts. Concrete anchors for clamps shall be in accordance with Federal Specification FF-5-325, Group II, Type 4, Class I and shall be galvanized in accordance with ASTM-153, B695-91 Class 50 or stainless steel. Minimum embedment in concrete shall be 1 3/4". The supplier shall furnish a manufacturer's certification that the concrete anchors meet the required material and galvanizing specifications.

Payment for the conduit system, including all materials, labor and all incidentals necessary to complete this item shall be considered completely covered by the contract unit price for Conduit System on Structure.

Traffic over structure to be maintained during construction.

Miscellaneous:

refers to the sections in the standard and supplemental specifications unless specified otherwise.

Outline of old work is indicated by light dashed lines. Heavy lines indicate

Contractor shall verify all dimensions in field before ordering new material.

Existing anchor bolts shall be cut off 1" below sidewalk surface and remaining holes filled with an approved qualified special mortar in accordance with Sec 704.

Any new concrete on existing sidewalk shall be stained to match as closely as possible Pittsburgh Paints Color #414-3 (tan).

Luminaires shall match size, shape and specifications of the existing luminaires located on east side of structure, unless otherwise approved by the engineer.

Notes For Ornamental Pedestrian Fence:

All fence posts and light poles shall be vertical. Leveling nuts shall be placed under floor plates to provide for vertical alignment of posts.

Dimensions of ornamental pedestrian fence are measured horizontally.

Use $\frac{1}{2}$ % bolts with hex nuts and hardened washers except as noted.

All panels shall be placed level and positioned such that the minimum vertical clearance between the top of sidewalk and bottom of fence panel is between $2\frac{1}{2}^{\prime\prime}$ min. and 3 $^{\prime\prime}$ max.

The contract unit price per linear foot for Ornamental Pedestrian Fence shall include furnishing, galvanizing, powder coating and erecting the fence and frame complete, with resin anchor systems and bolts.

Fence posts, light poles and fence panels shall be galvanized after fabrication and shall be powder coated in accordance with the powder coating manufacturer's recommendations.

The color of the fence welded wire mesh and framework shall match as closely as possible Pittsburgh Paints Color #518-7 (black magic).

All fabricated structural steel shall be ASTM A709 Grade 36 except as noted. Fence posts and light poles shall be ASTM A501 except as noted. The fence posts, light poles and fabricated structural steel shall be galvanized in accordance with ASTM A123.

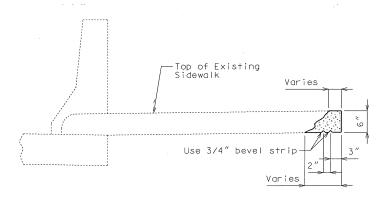
All bolts, hardened washers, lock washers and nuts shall be galvanized in accordance with ASTM A153.

Shop drawings will be required for the Ornamental Pedestrian Fence.

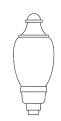
The $\frac{1}{2}$ % Resin Anchor Systems used in the top of the existing sidewalk on wing wall shall be one of the qualified resin anchor systems in accordance with Sec 1039. The $\frac{1}{2}$ "Ø threaded rod used in the Resin Anchor Systems shall be ASTM A36 and galvanized in accordance with ASTM A153.

The minimum embedment depth in concrete with f'c = 4.000 psi for the resin anchor system shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than shown.

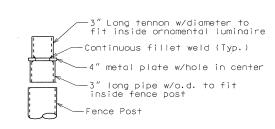
I†em	,	Total
Ornamental Pedestrian Fence with Lighting	linear foot	442
Conduit System on Structure with Wiring	· lump sum	1 .
Sidewalk Edge Repair	· linear foot	27
Luminaire	. each	9



DETAIL OF SIDEWALK EDGE REPAIR



ORNAMENTAL LUMINAIRE



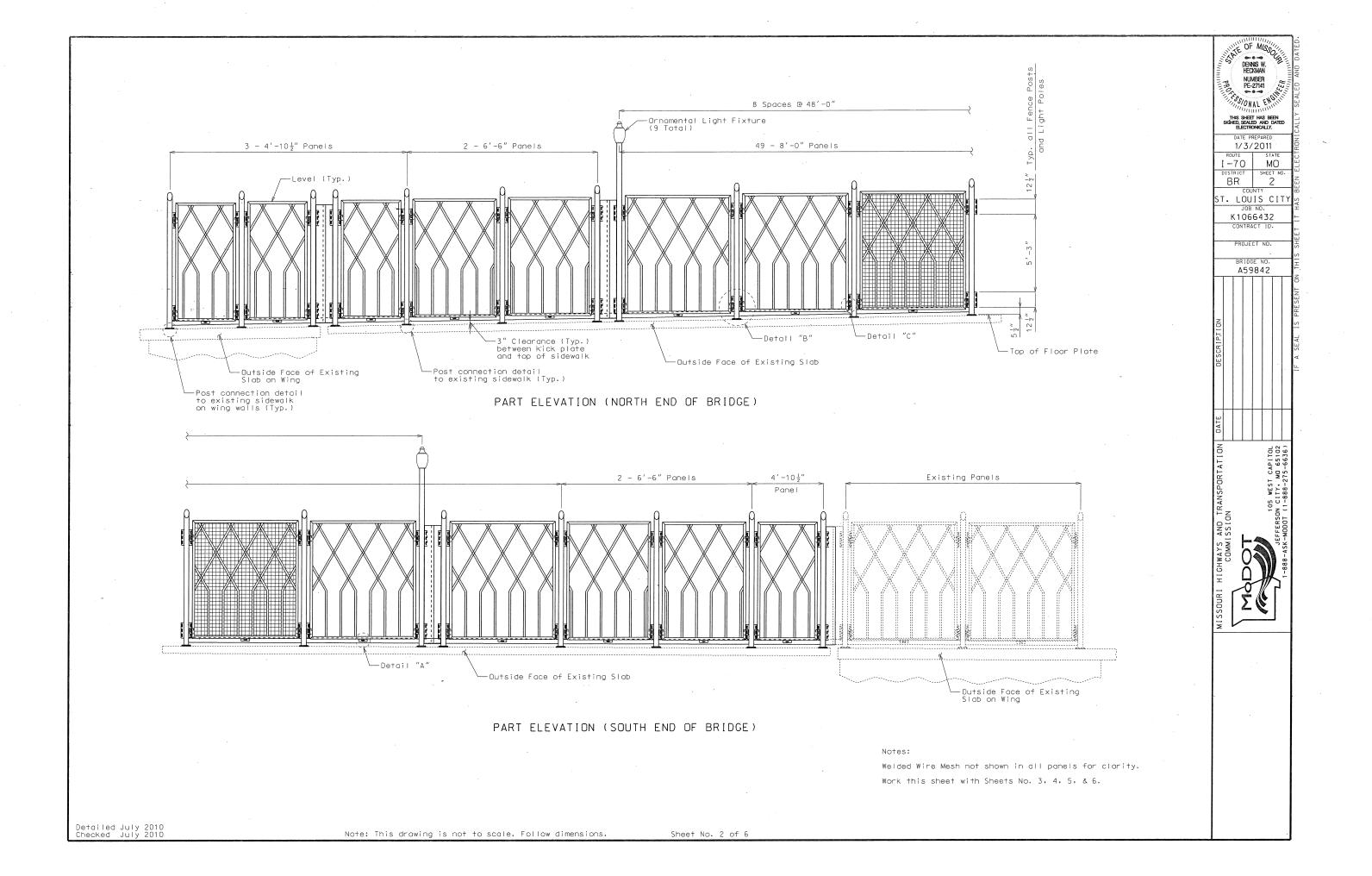
ORNAMENTAL LUMINAIRE ADAPTER

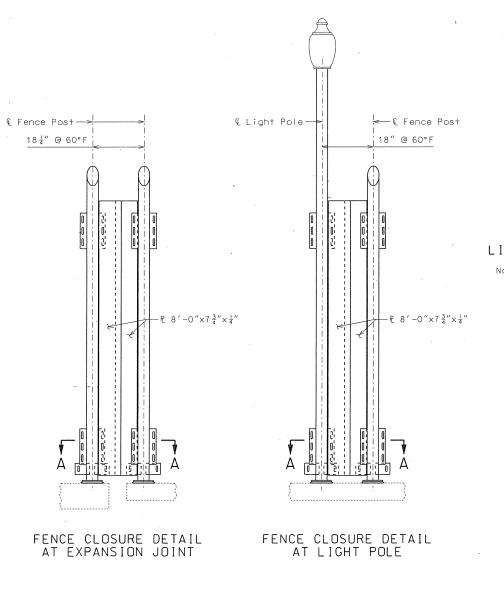
Note: Prime and paint adapter to match fence.

REPAIRS TO BRIDGE: WEST FLORISSANT AVENUE OVER I-70

STATE ROAD FROM KINGSHIGHWAY BLVD TO EAST GRAND BLVD

Detailed July 2010 Checked July 2010

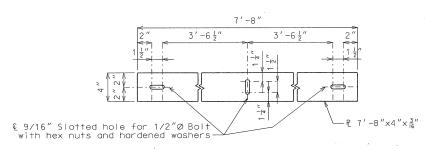




 $\begin{array}{c} \begin{array}{c} \begin{array}{c} 3\frac{1}{2} \text{ \% Schedule 40} \\ \text{Structural Tubing} \end{array} \end{array}$

LIGHT POLE ACCESS HOLE DETAILS

Note: Bend $3\frac{1}{2}$ " $x7\frac{1}{2}$ " $x\frac{1}{16}$ " cover plate to match contour of the light pole.



DETAIL OF KICK PLATE (49 Req'd.)

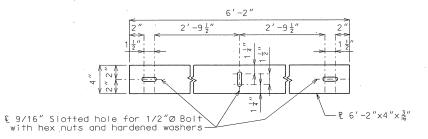
1/3/2011

I -70 MO

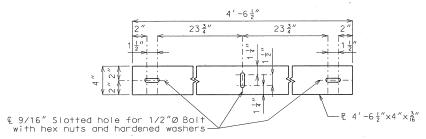
K1066432
CONTRACT ID.

A59842

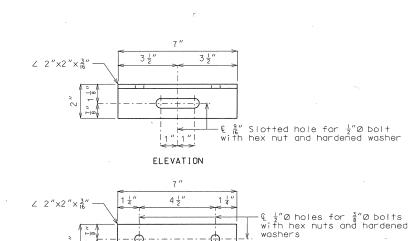
BR



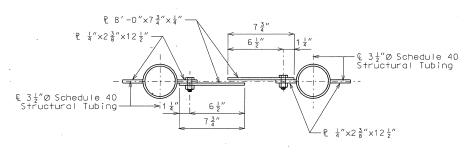
DETAIL OF KICK PLATE (4 Req'd.)



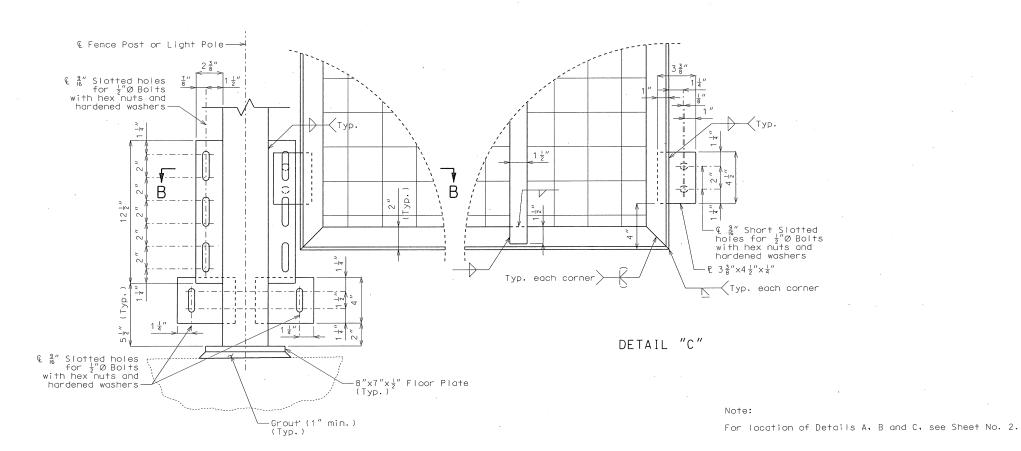
DETAIL OF KICK PLATE (4 Req'd.)



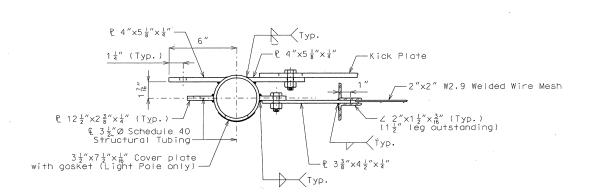
KICK PLATE CONNECTION ANGLE



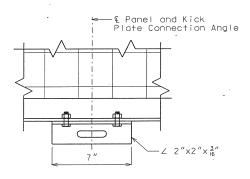
SECTION A-A



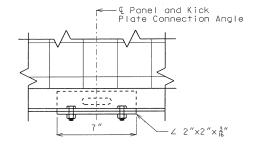
DETAIL "B"



SECTION B-B



KICK PLATE CONNECTION ANGLE POSITION: "A"



KICK PLATE CONNECTION ANGLE POSITION "B"

DETAIL "A"

Use Position "A" or Position "B" as required to maintain the 3" maximum clearance between kick plate and top of sidewalk.

Detailed July 2010 Checked July 2010

Note: This drawing is not to scale, Follow dimensions,

Sheet No. 4 of 6

DENNS W.
HEXMAN
NUMBER
PE-27th
NUMBER
NO DATE PREPARED

1/3/2011
ROUTE STATE
I - 70 MO
DISTRICT SHEET NO.
BR 4
COUNTY
ST. LOUIS CITY
JOB NO.
K1066432
CONTRACT ID.
PROJECT NO.
BRIDGE NO.
A59842

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MISSOURI HIGHWAYS AND TRANSPORTATION DATE
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY. MG 65102
1-888-ASK-WOOOT (1-888-755-6636)

